



Senators boost tech transfer

NEW MEXICO SEN. TOM UDALL hosted a technology transfer roundtable in Albuquerque to discuss ways to step up efforts to move technologies developed in the national labs to the private sector. Joining Udall were New Mexico Sen. Martin Heinrich, Maryland Sen. Barbara Mikulski, Sandia officials, and business leaders. Story on page 6.

Exceptional service in the national interest

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Jill Hruby signs Annual Assessment letter



Photo by Stephanie Blackwell

Addresses safety, security, and reliability of nation's nuclear weapon stockpile

In late September, Sandia President and Laboratories Director Jill Hruby signed Sandia's Annual Assessment letter. Each year, Sandia assesses the safety, reliability, and performance aspects of the nation's nuclear weapons stockpile for which it has responsibility. Through a series of formal presentations and discussions involving all stockpile weapon systems and support organizations, the Chief Engineer for Nuclear Weapons and the Deputy Laboratories Director for National Security Programs report on the safety, reliability, and performance status of the stockpile in the absence of nuclear testing. As required by law, the Laboratories director provides an annual summary of this assessment and related issues to the Secretary of Energy, Secretary of Defense, and the Chairman of the Nuclear Weapons Council. The directors of Los Alamos and Lawrence Livermore national laboratories and the commander of the United States Strategic Command complete similar letters based on their assessment. The secretaries, in turn, attach each assessment without change and submit a letter to the President under their signatures detailing their comments, conclusions, and other appropriate information regarding the state of the nation's nuclear deterrent.

After signing the letter, Jill shared the following thoughts:

Since assuming my role as Sandia President and Laboratories Director in July, I have already had several opportunities to represent this remarkable institution to numerous stakeholders. Nothing, however, has brought more vividly to mind the sense of grave responsibility we all share in conducting our mission than signing my first Annual Assessment letter to the secretaries of Energy, Defense, and the chairman of the Nuclear Weapons Council. This letter, which addresses the status of the nation's nuclear weapons stockpile, is the culmination of an ongoing year-round effort by organizations across the Laboratories. Although my signature is on the letter, I am really signing for all of us, expressing two of our key Sandia values: We serve the nation and we team to deliver with excellence.

Thank you for all you do.
— Sandia President and Laboratories Director Jill Hruby

2015 State of the Labs

with Labs Director Jill Hruby

- Nov. 3: Steve Schiff Auditorium
- Nov. 9: California Auditorium

Details in *Around Sandia* on Sandia TechWeb

(See ad on page 2)

'Sandia is always there'

NNSA Administrator Frank Klotz says at all-hands

Gen. Frank Klotz, DOE's under secretary for Nuclear Security and NNSA administrator, came to Sandia on Oct. 15 to thank Sandians for their contributions to NNSA and the nation.

Noting that it is a common practice when you encounter a veteran to say "Thank you for your service," Klotz added, "I understand that you serve the nation, too." He made his remarks to a live audience at the Steve Schiff Auditorium and watching via video feeds from Livermore, California, Carlsbad, New Mexico, and Washington, D.C.

In making a point about the breadth of contribution by all employees across the nuclear weapon enterprise, Klotz made a comparison to the way football is presented.

Someone not familiar with the game might conclude from the way it is presented on TV, he said, that football is all about the quarterback: That's where the focus is; that's where the camera is pointed.

"But we know it's not," he said. It's more than the quarterback, more even than the players on the field. The coaches, the trainers, and front office personnel, the fans, and the sports media — "All of that is necessary to make this thing we call 'football,'" he said.

The same is true for NNSA. Everyone across the enterprise, regardless of their role, contributes to the NNSA mission and its success, Klotz said. "Every one of you is worthy of

(Continued on page 6)

DURING A TOUR OF THE CENTER FOR GLOBAL SECURITY AND COOPERATION (formerly the International Programs Building) NNSA Administrator Frank Klotz (second from left in front) and Sandia President and Laboratories Director Jill Hruby pause before a display that describes Sandia nonproliferation efforts. Also part of the delegation were, front left, Senior Manager Max Decker (5790), Klotz, Jill, and NNSA Sandia Field Office Deputy Field Manager Mike Duvall (left of Jill). In the background, from left, are Div. 6000 VP Jim Chavez; George Baldwin of Sandia's Global Nuclear Security and Nonproliferation organization; Gary Laughlin, deputy director of the International, Homeland, and Nuclear Security PMU; and NNSA official Capt. Owen Travis. (Photo by Randy Montoya)



A SAFE HAVEN FOR VETERANS. Story, photos on pages 4-5.

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A distinguished public servant

Todd Dunivan, manager of Div. 3000 Business Operations Dept. 10593, is one of 11 individuals from around the state selected to receive a 2015 New Mexico Distinguished Public Service Award. See page 8.



That’s that

First, kudos for our Protocol team. I don’t know if you’ve noticed, but over the past few weeks we’ve hosted a steady stream of high-profile visitors to the Labs, everyone from NNSA Administrator Frank Klotz and US Senators Udall, Heinrich, and Mikulski (from Maryland), to DOE undersecretaries, generals, and admirals. And as I say, that’s just the high-profile visitors. Not quite as visible on the radar but perhaps equally important, we’ve also hosted several technical review boards that provide an outside perspective on our work in a variety of areas. This is nothing new. We’ve always had our share of visitors. When you’re dealing with issues as consequential as those we grapple with every day, there’s going to be a lot of interest out there.

As we go about our work, most of us don’t even know these visits are taking place, but they are and it seems to me, speaking from 20 years of experience and observation, that the pace is increasing. More and more stakeholders are interested in what we’re doing. That’s a good thing. But these visits don’t just happen; they require a lot of planning and coordination, a lot of work. A lot of late nights and early mornings. That’s where our Protocol folks come in; in addition to seeing to the details that make for a successful visit, our Protocol officers are often the very first people from Sandia that our guests interact with. As often as not, they’re the folks who make that all-important first impression. I’ve seen our Protocol folks in action over the years and I admit to being somewhat in awe of how good they are. We pride ourselves at Sandia of employing the best of the best. Boy, is that true of our Protocol team!

* * *

Great Scott! As I write this, it’s *Back to the Future* Day. Just like Doc Brown and Marty McFly, we’ve all made it to Oct. 21, 2015. It took us a bit longer to get here, but here we are. Today is the date in *Back to the Future II*, 30 years into the future of their 1985 universe, where Marty and Doc have a series of adventures, misadventures, and . . . well, you’ve probably seen the movie a time or two so I don’t need to recap the whole thing. But I will say this much: SPOILER ALERT – Everything works out all right in the end.

I just read that the movie’s director, Robert Zemeckis, says he hates movies about the future because they offer up big, fat, juicy targets for Monday-morning quarterbacks who nitpick the details to death. Where’s my hoverboard, Mr. Zemeckis? My flying car? And hey, where are my self-tying shoes and adjustable clothes? Where’s my pizza re-hydrator, huh?

Not that it matters – this was just an entertainment, meant to be taken all in fun, after all – but the humorless contrarians out there ignore a lot of stuff the movie gets right. While there hasn’t been a *Jaws 19* – yet – with the Hollywood tendency to reboot popular franchises, is it really that far-fetched to imagine we may someday see it? Big screen, flat-panel TVs, video calls, biometrics, Google Glass-like eyewear, 3D – all of those technologies are part of our world today.

The universe of 2015 that Marty and Doc visited is a place where we could live and feel at home, but I think we’d miss the Web and our smart phones. Those technologies are conspicuously missing from the movie. The digital revolution over the past 30 years, one of the most significant technological game-changers in human history, barely registers in the *Back to the Future* movies.

Hard to blame Zemeckis for missing it, though. Outside a few visionaries (who were probably dismissed as cranks and/or science fiction writers), who *did* anticipate this global paradigm shift? At the very least, who anticipated the digital revolution would change so many things so fast (again, save for a few prescient scifi writers)?

If Zemeckis were to reboot *Back to the Future* today, what would his imagined world of 2045 look like? If I were writing the screenplay, I wouldn’t even know where to begin. I might be lost about where this digital revolution is taking us, but one thing is for sure: I would never postulate, as Zemeckis did in his original movie, that the Cubs would win a World Series. I know it’s just fiction, but even the most far-fetched story has to be grounded in some sort of plausible reality, right?

See you next time.
– Bill Murphy (MS 1468, 505-845-0845, wtmurph@sandia.gov)

Give them 20!

Show your support for veterans on Nov. 3 at Hardin Field



Break a sweat and show your support for veterans at “Sandia Salutes Veterans” — a new event sponsored by Community Involvement, the Military Support Council, and HBE. Join us at Hardin Field on Tuesday, Nov. 3, 12:15-12:30 p.m., and do 20 push-ups, sit-ups, jumping jacks, or march in place. For every participant, Lockheed Martin Corporate Contributions will donate \$50, up to \$20,000, to the Veterans Heading Home organization.



Div. 4000 Infrastructure Operations VP Michael Hazen will host the event. Make sure your PAR-Q form for medical clearance to participate in HBE fitness activities is current. Questions to Patty Zamora (3652) at 844-2146.

For more about Veterans Day activities at Sandia, see the box on page 5.

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ANNUAL
**STATE
OF THE
LABS**

PRESENTED BY
JILL HRUBY
PRESIDENT & LABORATORIES DIRECTOR

NOV. 3, 3PM
STEVE SCHIFF AUDITORIUM, NM

NOV. 9, 11AM
CALIFORNIA AUDITORIUM

Sandia National Laboratories

For more details, including video conferencing opportunities, see Around Sandia.

California site launches SHARE with flair

By Patti Koning • Photos by Dino Vournas

The California site wraps up its employee contribution program, Sandia Helps and Reaches Everyone (SHARE), at the end of this month. More than 350 people turned out for the Star Wars-themed kickoff, which raised nearly \$4,000 for the Make-A-Wish Foundation through a silent auction. The “force” of giving has been strong all month at the site, with weekly SHARE Thursdays featuring nonprofits supported by SHARE and canned food and coat collections. The 2015 SHARE campaign is co-chaired by Madeline Burchard (8521) and Patrice Sanchez (8523)



JEDIS AT SANDIA?— The Force of giving is strong in Donna Edwards (8114) during the SHARE kickoff event.



KRISSY GALBRAITH (8500) collects donations for One Warm Coat, a San Francisco nonprofit that collects and distributes coats to men, women, and children in need.



“I ENCOURAGE YOU to join the campaign and support the causes that are important to you,” Div. 8000 VP Marianne Walck told attendees at the 2015 SHARE Kickoff on Oct. 2.



STEVE PARADISE (8226) and his family SHARE the Force.



California retirees do lunch

By Patti Koning • Photos by Dino Vournas

Some 225 retirees and their guests gathered to reminisce and reconnect at the 2015 Retiree Brunch at the Livermore Community Center in mid-October. Div. 8000 VP Marianne Walck updated the audience on the California site’s accomplishments and future plans, as well as the current state of Sandia as a whole. The retirees also learned about community service opportunities from Community Relations officer Madeline Burchard (8521). Among the attendees were Rick Stulen, who served as Div. 8000 VP from 2009 until he retired in 2013, and Bob Carling, director of Center 8300 and the Combustion Research Facility from 2008 to 2013. Collectively, Rick and Bob worked at Sandia for more than 70 years.





A VISION, A DREAM, A PROMISE KEPT — Sandia retiree Mike Tachias, who also recently retired from the Army as a lieutenant colonel, and his wife Rowena, look over plans for the Cabezon Wounded Warrior Haven, which they have established at their 65-acre ranch at Cabezon, New Mexico. Rowena first thought of the idea of the Haven because, as she puts it, “We wanted to make it into a place where veterans and their families can go, because that is where we go.” The Haven’s slogan is, “Once a warrior, always a hero.”

Cabezon Wounded Warrior Haven

Sandia retiree opens veteran retreat

Story by Rebecca Brock
Photos by Randy Montoya

Ask Sandia retiree Lt. Col. Mike Tachias what he is the most proud of in his 34-year military career, and his answer may surprise you. “My family,” Mike says. “My wife, my son, and my two daughters. Looking back now, I think about the struggles they went through, but they always stayed dedicated to me.”

Mike and his family spent years apart during his Army career where he served with Civil Military Affairs, Security and Intelligence Command, Special Operations, and US Central Command. His tours included Afghanistan, Iraq, Bosnia, and Kosovo. Following his compelled medical retirement, the transition home was hard.

Mike’s wife, Rowena, says, “It was actually easier when Mike was deployed, to deal. Because when he was home, I fought for his attention to be here. He wanted to be there. He had to live with the guilt of leaving his young soldiers behind.”

A highly decorated American hero and veteran of the post-9/11 wars, Mike suffered from combat injuries including traumatic brain injuries and concussions from his encounters with improvised explosive devices in Iraq and Afghanistan.

“When you come back from war, you’re different and your family is different. Mike had seen things as a soldier that we could not comprehend, and meanwhile the kids and I had to do different things at home without him here,” Rowena says.

Reconnecting at home

Mike says that fortunately, he and his family were able to spend quality time together on their 65-acre ranch in Cabezon, New Mexico. The serene landscape has been in Mike’s family since the 1870s. The land includes the Rio Puerco River running through it, a historic ghost town, and the iconic Cabezon Peak. The remote desert resembles the vistas in Afghanistan, where Mike spent two years fighting the Taliban in the Arghandab River Valley, and Kandahar and where he earned the nickname, “The Taliban Cowboy.”

While in medical recovery in Fort Bliss, Texas, Mike invited other combat veterans to come out to his ranch for comradely activities such as camping and mountaineering at Cabezon Peak. “A lot of guys had not seen the Southwest, and had never been to a ranch. So I started inviting other soldiers out here to join me,” Mike says.

Opening their doors

Eventually it was Rowena, Mike’s wife of 20 years, who suggested that they use the family plot to build a veterans’ retreat to help her husband and other soldiers transition from combat into civilian life.

Rowena says, “I always knew my husband would have a hard time hanging up his boots. The military is what he is, it is in his soul. So converting our ranch, a property that has been in his family for a hundred years, was a way to stay connected with



THE WOUNDED WARRIOR HAVEN is intended to help soldiers transition from combat to civilian life.

the military. We wanted to make it into a place where veterans and their families can go, because that is where we go.”

Mike and Rowena made it official in July 2014 by converting their ranch into a nonprofit, faith-based veterans retreat called Cabezon Wounded Warrior Haven. The Haven is a Christian-based organization that Mike says is open to all soldiers. It is Mike’s way of continuing to honor his military comrades, past and present. He says, “Being in combat I was a witness to a lot of the tragedy that went on in my unit. When I got home, I had the guilt of being home; I left a lot of these guys back there. I went to a lot of funerals. In Special Operations our unit was small, and I was so blessed to be surrounded by my fellow soldiers. If it was not for them, I would not be standing here today. So creating this retreat is a way of giving back.”

With the slogan, “Once a warrior, always a hero,” the Cabezon Wounded Warrior Haven is open to veterans and their families who qualify through a screening with the local Army Wounded Warrior Program (AW2), the official US Army program that assists wounded, ill, and injured veterans and their families. The retreat can accommodate a variety of small and large groups, from families looking for bonding activities such as hiking, ATV trail riding, and campfire gatherings, to soldiers looking for a weekend with the guys to go camping and rappelling off Cabezon Peak. Mike describes Cabezon Wounded Warrior Haven as a healing place in a majestic setting. He says, “You’re in God’s country up there, and looking down from Cabezon Peak, it is breathtaking. Once you come to Cabezon, it separates you and you kind of lose contact with the world you just left. It puts you in a whole different environment.”

Depending on the veterans they are hosting, Mike and Rowena invite community professionals such as therapists, doctors, and pastors to join them at the ranch to help enhance life skills and family bonding. Mike says that one of the misconceptions is that, “It’s not just the soldiers who need healing. It’s important that the families come together. The spouse and the kids need to be included so that they understand where the veterans are coming from.”

Sandia SWAT

During his time at Sandia, Mike was part of the former Sandia Special Weapons and Tactics (SWAT) team and was trained in counterterrorism. “Everything that I learned in my SWAT training here at Sandia, I applied overseas in my job in the Army Special Forces,” he says.

When Mike was deployed following the 9/11 attacks, his col-

leagues at Sandia were here to back him up. “All of us were close and we always pulled together,” he says.

Rowena recalls, “When Mike was sent overseas, his Sandia colleagues would call me and ask if I needed any help. For example, I had 10 or 12 guys come over and do a spring cleanup to help me put things on our farm away for the winter. They did it several times.”

Mike says, “Sandia has always been a special place and it has always been pro-military. They made it clear to me that my job would still be here when I came back.”

Mike retired from Sandia with 25 years of service.

The building blocks

“Building the Haven has been a real community ground-up effort,” Mike says. Currently the Haven is in a construction phase, thanks to help from volunteer veterans, friends, and fellow Sandians. Sandia manager Eugene McPeck (4236) has spent time at Mike’s ranch as a volunteer, and is working to raise funds to help get the infrastructure built and sustainable.

“Mike and his lovely wife Rowena have a vision for our wounded warriors where veterans can be with other families who have shared the same type of experiences. All service men and women are a family, and Cabezon is a beautiful and peaceful place for families to enjoy nature and camaraderie,” Eugene says.

Since transforming the Haven into a retreat, Mike and Rowena have welcomed more than 100 people. On site they are constructing fences, a gazebo, ponds, and gardens, and renovating old buildings into cabins for families who do not have RVs. Looking ahead, Rowena says, “Our goal is, I don’t want any military families to say, ‘We’d love to come to Cabezon Wounded Warrior Haven, but we can’t afford it.’ So we need donations.”

To find out more about how to support Cabezon Wounded Warrior Haven, visit the website at cabezonhaven.org.



IN THE NORTHERN MOUNTAINS in the Kabul region, Lt. Col. Mike Tachias visits with a nomadic Pashtun herdsman affectionately called Santa Claus (for his flowing white beard) by members of the American military. (Photo courtesy of Mike Tachias)

VETERANS DAY CELEBRATION



Welcoming Guest of Honor and Speaker

Rear Admiral Priscilla B. Coe

Deputy Chief
US Navy Reserve
Dental Corps

Monday, Nov. 9
Steve Schiff Auditorium

Info Fair: 11 a.m.-noon

**Guest Speaker Event:
Noon-1 p.m.**

*See Techweb
for further information*

Sponsored by the Military Support Committee



A portrait of Rear Admiral Priscilla B. Coe in her US Navy Reserve uniform, standing in front of an American flag.

A photograph of Mike Tachias, in a military uniform, standing with a group of seven Afghan children in a dry, dusty area. The children are dressed in traditional clothing.

IN THE SOUTHERN KANDAHAR REGION, Mike Tachias befriends Afghan children from a small village. During his 34-year military career, Mike was deployed to Afghanistan, Iraq, Bosnia, and Kosovo. (Photo courtesy of Mike Tachias)

A graphic illustration of a mountain range with the text "CABEZON Wounded Warrior HAVEN" overlaid. The mountain is depicted in shades of green and brown, with a prominent peak.

A photograph of Mike and Rowena Tachias walking together on a dirt path. Mike is wearing a dark jacket and a cap, while Rowena is wearing a bright pink jacket. They are in a desert landscape with a large, flat-topped mountain in the background.

MIKE AND ROWENA TACHIAS walk the grounds of their Cabezon ranch, which has been in the family for generations.

A photograph of Mike and Rowena Tachias working on the grounds of the Cabezon ranch. They are using tools to clear the land. In the background, there is a sign that reads "Wounded Warrior Haven" and "CABEZON THE LAST RESORT". A small building with a red roof is also visible.

SINCE TRANSFORMING THE HAVEN into a retreat, Mike and Rowena have welcomed more than 100 people. On site they are constructing fences, a gazebo, ponds, and gardens, and are renovating old buildings into cabins for families who do not have RVs.

Gen. Klotz all-hands

(Continued from page 1)

hearing the words, ‘Thank you for your service.’”

Klotz reminded the audience that one of NNSA’s mottoes is “Mission First, People Always.”

“We can’t accomplish our mission without dedicated, talented, and enthusiastic people,” he said.

Proving the skeptics wrong

Klotz noted that on Oct. 22 in Washington, there was to be an observance of the 20th anniversary of the formal beginning of the Science-Based Stockpile Stewardship (SBSS) program. That is the program under which NNSA and its laboratories apply science and engineering approaches to ensure the safety, reliability, and performance aspects of the nation’s nuclear weapon stockpile without recourse to all-up underground nuclear testing, which was suspended in 1992.

“At the time, there were a lot of skeptics,” Klotz said of SBSS. “We proved the skeptics wrong; I saw elements of it today” referring to briefings he had received earlier in his visit that addressed various aspects of Sandia’s stockpile surveillance program.

‘Always there’

Klotz said NNSA and the nuclear weapon enterprise are now in one of the busiest periods in many years, noting that work is advancing on key weapon programs including the B61-12 and the W88-Alt370.

He noted that while Los Alamos National Laboratory is closely involved with the B61 work and Lawrence Livermore National Laboratory is involved with the W88 work, in each case, “Sandia is always there; Sandia is always part of the process.” That is because Sandia works with both of the other laboratories on the non-nuclear aspects of their designs.

Sandia’s performance in executing the weapon modernization programs “resonates in Washington,” Klotz said. He added that while NNSA and the laboratories “have always done many things extraordinarily well,” there have been occasions in recent years that have made some ques-

tion whether NNSA could deliver on ambitious life extension programs in the timeframes and within the budgets available.

Noting the old journalism adage that “Good news does not make news,” Klotz said that “When we do have a problem, it tends to get magnified; the problems loom larger than they should. We have worked very, very hard — you have worked very, very hard” — to address concerns, overcome challenges and put all of the life extension programs on schedule and on budget.

“All of this has started to change the narrative [about NNSA and the laboratories] in Washington,” he said.

Items in his in-basket

Klotz discussed several items that he said are at the top of his in-basket.

First, in discussing the agreement between the US and Iran (and other interested partners), he said, “What is not clearly evident to everyone is the role our laboratories played in that negotiation” bringing hard science and engineering approaches to the analysis of technical details of the agreement. The labs’ contributions, he said, provided a solid underpinning to the final terms of the agreement.

With the agreement in hand, the NNSA labs — including Sandia — will work closely with the International Atomic Energy Agency on the implementation, using technical solutions and expertise to monitor compliance with treaty terms.

“Much of that [monitoring] technology is developed right here,” he said.

Another in-basket concern is the perennial one of the NNSA budget, which could get caught up in the dynamics of budget negotiations in Washington. “The best thing for us is a budget deal that gives us an appropriation; that’s what we’re working for,” he said.

Klotz also said he and his team spend a lot of time focused on the “what-if” scenarios related to terrorist organizations and nuclear weapons and materials. Their thinking focuses on three related NNSA missions: To prevent, counter, and respond to the threats of nuclear proliferation and terrorism.

In response to a question from the audience following his prepared remarks, Klotz said he expects that there will be a

McDowell awarded NNSA Silver Medal



AT THE BEGINNING of his all-hands meeting with Sandians in mid-October, NNSA Administrator Gen. Frank Klotz invited retired Sandia Executive VP Jerry McDowell to the stage to accept the NNSA Silver Medal, the agency’s highest civilian honor. The award, Klotz said, recognizes Jerry’s 35 years of dedicated service to the nation’s national security enterprise. In accepting the medal, Jerry said it should be viewed as a collective award for all Sandians who have dedicated their careers to serve the nation.

(Photo by Randy Montoya)

formal RFP — a request for proposal — for the management and operations contract of Sandia National Laboratories “within the next few weeks or months.” He said the RFP is consistent with a determination at DOE and NNSA to rebid all M&O contracts as they near the end of their contract terms. Lockheed Martin’s contract expires in April 2017; the company has expressed in the past an interest in pursuing a new contract via the RFP.

In the Q&A session, Klotz also addressed the issue of NNSA oversight. While noting that there are some aspects of the NNSA mission that demand rigorous oversight, there are areas across the enterprise where burdensome, too-prescriptive oversight can be reduced or eliminated.

Out the door: DOE aims to expand lab ties to private sector to boost economy

By Nancy Salem

DOE is intensifying efforts to move technology developed at the national laboratories into the private sector to boost the economy and create jobs, says the head of the department’s new Office of Technology Transitions.

“Tech transfer is a mission of the DOE and all our national labs,” said Jetta Wong, acting director of the office. “It is a complementary mission that enhances what we do to meet our security, energy, and environment missions.”

Wong spoke Oct. 14 at a technology transfer roundtable organized by US Sen. Tom Udall, D-N.M., and held at Applied Technology Associates in the Sandia Science & Technology Park. Udall was joined by US Sens. Martin Heinrich, D-N.M., and Barbara Mikulski, D-Md., Sandia President and Laboratories Director Jill Hruby, Div. 1000 VP and Chief Technology Officer Rob Leland, and Carol Burns, deputy principal associate director for science, technology, and engineering at Los Alamos National Laboratory.

The roundtable discussion included the heads of six companies — HT MicroAnalytical Inc., mPower Technology, Aquila, and Abbott Medical Optics, all of Albuquerque; Flow Science Inc. of Santa Fe; and UbiQD LLC of Los Alamos — that are working to bring lab technologies to market. The Albuquerque companies said partnerships with Sandia through such programs as New Mexico Small Business Assistance (NMSBA), Entrepreneurial Separation to Transfer Technology (ESTT), and licensing were critical to their success.

Udall and Heinrich said it is important to step up tech transfer through legislation and policy. “How do we segue the great things we work on in the labs — nuclear engineering, nuclear nonproliferation, cybersecurity, nanotechnology, renewable energy, and on and on — into the marketplace?” Udall said. “We want to move forward in this crucial area. It means jobs and economic development.”

Heinrich said tech transfer must be a primary mission of DOE and NNSA. “Spinout companies should be the norm, not the exception,” he said. “It not only helps the state but is of enormous benefit to the nation.”

Mikulski, past chair and current vice chair of the Senate Appropriations Committee, said she is passionate about



TECH TRANSFER TALK — From left, US Sens. Martin Heinrich, Tom Udall, both D-N.M., and Barbara Mikulski, D-Md., joined Sandia President and Laboratories Director Jill Hruby in the Sandia Science & Technology Park for a roundtable discussion of technology transfer. “Expanding technology transfer so that innovations built at our national labs can move into the marketplace will create new jobs in New Mexico, grow our economy, and broaden access to ideas that improve our everyday lives,” Udall said.

(Photo by Randy Montoya)

creating markets for US-developed technology and will support tech transfer in Washington, D.C. “I represent great federal labs in my state, the National Institutes of Health, the Goddard Space Agency, the National Security Agency. We win Nobel Prizes but we don’t win markets,” said Mikulski, who later toured Sandia with Jill. “I want to work with our incredible assets and win markets and create jobs.”

Sandia tech transfer successes

Jill told the senators Sandia is proud of its tech transfer record. From FY14 to FY15, the Labs saw a 38 percent increase in commercial licenses, and a 130 percent rise in the past three years. She cited NMSBA, a public-private partnership among Sandia, Los Alamos, and the state of New Mexico that connects small business owners with scientists and engineers who provide technical help. The program in 2014 provided \$4.7 million worth of assistance to 352 small businesses in 31 New Mexico counties.

Six researchers left Sandia this year through ESTT, setting up four companies, the highest number since 2007, Jill said. And Sandia was selected as one of five national labs to lead

implementation of DOE’s Small Business Voucher pilot, which will offer clean-energy companies technical help.

“Looking ahead, we have big plans,” she said. “Our Center for Collaboration and Commercialization concept, right here in the Science & Technology Park, will be the public face for Sandia to provide easier access and build links to the community. We care about the community we live in and care about getting our technology out for the public good.”

Energy commercialization fund

Wong said DOE established the Office of Technology Transitions eight months ago to expand the commercial impact of the department’s property R&D portfolio in the short, medium, and long term. “The office is trying to make the hand-off of early stage science more effective by making the department’s work with the private sector more streamlined, so they can help commercialize technologies,” she said.

The office also will oversee the Energy Technology Commercialization Fund established in the Energy Policy Act of 2005. The nearly \$20 million fund uses 0.9 percent of the funding for DOE’s

applied energy research, development, demonstration, and commercial application budget for each fiscal year. It provides matching funds with private partners to promote promising energy technologies for commercial purposes.

“There are lots of opportunities now to talk about how to shape the fund to be most valuable to communities and the laboratories,” she said.

The new office also will be responsible for delivering a Technology Transfer Execution Plan to Congress and reporting annually on DOE’s technology transfer and partnership activities.

“Over the past 70 years, the DOE national labs system has been an integral part of the science and technology backbone of the country,” Wong said. “DOE scientists and technicians not only focus on our missions, they play a huge role in the development of products that create economic growth. Look at solid-state lighting, vehicle battery technology, solar energy. They came from foundational science from the national labs. “If you seed early stage science you can do all these things that transition to the marketplace. There’s a direct connection to our local communities.”

SANDIA CLASSIFIED ADS

MISCELLANEOUS

1973 SCHWINN 671 SUBURBAN, 10 speed bike w/rear carrier, excellent condition. \$100 obo. Tucker, 505-220-8823.

ENGLISH BRIDLES, 1 b/w, 3 brown, \$20 ea.; black rubber reins, \$15; snaffle bits, \$15 ea., good condition. Siefert, 505-323-1541.

CONVERTIBLE CRIB with matching dresser, both sets are tan, high quality, heavy & sturdy; dresser looks almost brand new, \$375. Davis, 505-610-1309.

ARMOIRE AND HUTCH, dark cherry finish, \$700 for both. Hennessey, 505-269-6243.

CASE-MATE FOLIO for iPhone 6, black leather, retail \$60, asking \$25. 2 left, recommended for iPhones. Baca, 505-839-5151.

SOCCKER GOAL (without net), 12'x6', asking \$30, can negotiate. Brewster, 238-4704. Ask for Julie.

VERIZON NETWORK EXTENDER, Samsung Model SCS-2u01, strengthens Verizon cellular network signal inside home, lightly used. \$125. Thomas, 505-366-7147.

PARLOR ORGAN, ca. 1880s, good condition, new bellows, cleaned reeds and mechanism, \$200 obo. Stichman, 856-6242.

BABY FURNITURE SET, 3 piece, convertible crib, changing table and dresser (JCPenney), \$250 obo. Brito, 505-822-1201.

PLANT STAND, black metal, 57 1/2" tall by 24" wide, 3 shelves, good condition. \$25. Dockerty, 828-0745.

DINING ROOM TABLE, oak, double pedestal, 4 ft x 8 ft., NEW, \$800; gas stove, clean, no dents, \$400; 25 cf side/side fridge, \$450. Amend, 505-453-4751.

PIANO, Cable-Nelson upright, serial #232478, good condition, good beginner's piano, \$250. Crowder, 505-792-2133.

DOUBLE STROLLER, sit and stand, in great shape. \$125. Davis, 505-610-1309.

PAINT SPRAYER, airless Graco mag dx, never used, paid \$300 new, \$100; camper shell, 8', fits older Ford. Stone, 869-7106.

5TH WHEEL HITCH, 2014 Curt E16, \$150, tailgate fits '02 Chevy, \$25; 5-15" trailer wheels, \$75. Brockman, 350-3356.

MITSUBISHI TV, WD-65738 65" Full 3D 1080p HD Rear-Projection Internet, low lamp hours ~2800, \$350 obo. Lujan, 299-2218.

SCANDINAVIAN FESTIVAL, Nov. 7, 2015, 10am-4pm, Immanuel Presbyterian Church, 114 Carlisle SE, Abq. Scandinavian art, food, entertainment. Free. Richard-Franco, 294-5739.

BUFFET, Ethan Allen, cherry wood, \$700; casual dining table, oblong, 2 leaves & 6 chairs, \$400, Chirigos, 980-0319.

MANNHEIM STEAMROLLER CHRISTMAS, Popejoy Hall, Dec. 18, 4pm, orchestra N201-202 \$130/pair. Martinez, 292-1494.

PIANO, Baldwin Acrosonic spinet, ebony lacquer finish, \$500. Blaine, 299-1036.

BEDROOM DRESSER, 60" wide x 32" high, heavy dark wood, 8 drawers with framed mirror attached, excellent condition, \$150, you haul. Freshour, 505-301-2076.

WEST BEND BREAD MAKER, 2 lb., two-paddle, baker's style, cat#:41095, lightly used, excellent condition. \$65 obo. Menicucci, 235-8501.

MICHELIN AT TIRES, 4, used, 265/70/18-E, \$80 or trade for 235/75/15. Schroeder, 505-917-4516.

POPEJOY TICKETS, 1. Sherlock Holmes, Nov. 1, 3:00 p.m., two @ \$40.00 ea. 2. A Christmas Story, Nov. 22, 6:30 pm, two @ \$54.25 ea. 3. The Producers, Jan. 31, 6:30 pm, two @ \$49.50 ea.; all seats in Orchestra east side, on inside aisle. Hoyal, 505-823-1421.

DISHWASHER, Frigidaire Ultra Quiet, stand-alone, rolls to sink, w/hook up, \$100. Wimpy, 822-0223.

BED FRAMES, 2 full/queen, \$50/ea; 32" Sony TV, \$200; Grateful Dead items-signed lithographs, albums, etc. Chavez. 505-919-9233.

ELLIPTICAL MACHINE, \$500 or best offer. Anez, 877-2778.

CABINET, all steel, 16"w x 24"d x 32"h, w/5 slots, \$50, welding table, \$70, acetylene/oxygen cutting/welding torch, \$300. Herrera, 833-5035.

GOLF CADDY, Kangaroo Cadet model, battery-powered. \$200. Philbin, 828-2414.

How to submit classified ads

DEADLINE: Friday noon before week of publication unless changed by holiday.

Submit by one of these methods:

- **EMAIL:** Michelle Fleming (classads@sandia.gov)
- **FAX:** 844-0645
- **MAIL:** MS 1468 (Dept. 3651)
- **INTERNAL WEB:** On internal web homepage, click on News Center, then on *Lab News* link, and then on the very top of *Lab News* homepage "Submit a Classified Ad."

If you have questions, call Michelle at 844-4902.

Because of space constraints, ads will be printed on a first-come basis.

Ad rules

1. Limit 18 words, including last name and home phone (If you include a web or e-mail address, it will count as two or three words, depending on length of the address.)
2. Include organization and full name with the ad submission.
3. Submit ad in writing. No phone-ins.
4. Type or print ad legibly; use accepted abbreviations.
5. One ad per issue.
6. We will not run the same ad more than twice.
7. No "for rent" ads except for employees on temporary assignment.
8. No commercial ads.
9. For active Sandia members of the workforce, retired Sandians, and DOE employees.
10. Housing listed for sale is available without regard to race, creed, color, or national origin.
11. Work Wanted ads limited to student-aged children of employees.
12. We reserve the right not to publish any ad that may be considered offensive or in bad taste.

CALVARY CHRISTIAN ACADEMY is hosting annual craft fair, Dec. 5, 9a.m.-4p.m. @ 12820 Indian School Rd NE. Edmonds, 505-414-7532.

ASBURY CHRISTMAS BAZAAR, 10,000 Candelaria Rd. NE, Saturday, Nov. 7. 9a.m.-3p.m. Sparling, 281-7267.

TWO LOBO BASKETBALL TICKETS. Bench seats. Section S, Row 20. \$800 for both (face value). Urenda, 505-344-2737.

TRANSPORTATION

'05 KAWASAKI KX250, two stroke, good condition, break-away levers, radiator guard, anodized wheels, \$2200. Rodriguez, 250-6852. Ask for Manny.

'02 Mercury Sable, AC, AT, 66K miles, excellent condition, \$2,200. Brown, 505-280-4083.

'08 INFINITY JOURNEY G35, 70K miles, excellent condition, automatic, leather, navigation, heated seats, sunroof, silver/wheat, \$13,995. Spahn, 505-400-8370.

'11 SUBARU FORESTER, 2.5XT Turbo, blue, excellent condition, automatic, new tires, 97K miles, \$15,000. Rosen, 771-2960.

'05 BMW X5, 3.0i, Kalahari beige/tan leather, AT, 113K miles, excellent condition, below book at \$7000 obo. Dwyer, 271-1328.

'04 HARLEY ROAD KING CLASSIC, 10,800 mi. w/extras, \$13,000. EZ Haul trailer w/hardware, \$2,000, both \$14,000. Gallegos, 235-1299.

'97 SATURN, 4-door, automatic, 126K miles, fair condition, runs and starts good, \$950 obo. Martin, 623-687-7673.

'05 CORVETTE, excellent condition, 52K miles, 28+ mpg, 6-speed, Bose sound, leather, removable hard top, \$25,000. Cocain, 281-2282.

'09 TOYOTA COROLLA S, manual w/cruise & power pkg., white, 92,500 miles, \$7K. Satpathi, 505-577-8507.

'15 HONDA CRZ HYBRID, 10K highway miles, white, automatic, perfect condition, MSRP \$24,733, asking \$18,999. Keegan, 505-238-3638.

'78 OLDSMOBILE TORONADO BROUGHAM COUPE, 35K miles, stored, purchased new, owner manual, cruise control, sunray tinted windows, loaded. Brunacini, 505-883-2557.

RECREATIONAL

THANKSGIVING WEEK in San Diego, \$850, Dec. 18-25; Atlantic City, \$650. Both 1-2 blocks to ocean. Wolfgang, 414-1483.

'12 FLAGSTAFF CLASSIC SUPER LITE, 5th wheel, 26 ft., sleeps 6, 1 slideout, \$28,000 obo, in Belen. Torres, 550-7404.

'95 DUTCHMEN 1202 POP-UP CAMPER, lightly used, excellent condition w/extras, \$3,000. Lebien, 505-459-4074.

RH GOLF CLUBS, Wilson Ultra Set, driver-3-5, 2-pw, \$90; 4 misc. drivers, \$20-\$45, foldable pull cart, \$25, Bleck, 505-917-1884.

REAL ESTATE

7-BDR. EAST-MOUNTAIN HOME, perfect for homeschool, ranch-style, walk-out basement, theater, 2-acres, 4,992 sq.-ft., front-door Sandia-vanpool pickup. \$409,900, MLS#842530. Weaver, 505-480-9951.

3-BDR. HOME, 2 bath, 1,750 sq. ft. in NE Heights on 1/4 acre lot, cul-de-sac, 3413 Montreal St. N.E., \$230K. Amador, 719-323-4410.

5-BDR. HOME, 3 baths, Mossman tri-level, near Sandia HS, Madison MS, and Comanche Elem., 3,000 sq. ft., excellent floor plan, \$350,000. Norwood, 331-8608.

4-BR custom home, East Mountains, 3 bath, 3,200+ sq. ft., 5+ acres, NM den, great room, solarium, office, 5+ car garage, MLS#851482, \$385,000. Andersen/Stearley, 281-3755.

WANTED

ROOMMATE, looking for a female roommate to share 2-bed/2-bath townhouse in NE Heights starting Jan. 2016. Madduri, 703-336-2036.

FORD F-150, need used 4-door with low mileage for high school grad's first vehicle. Clark, 505-228-3181.

PHYSICS TUTOR, for high school senior. Clark, 505-228-3181.

2016 Open Enrollment

Open Enrollment is an annual opportunity to review your various benefit elections and make any needed changes or updates. You may also enroll in certain Sandia benefits (medical, dental, vision, flexible spending accounts, etc.) and change dependent enrollments. Sandia is committed to providing you with benefits that promote your health and well-being. If you have any questions about Open Enrollment, please contact HBE Customer Service at 844-HBES (4237).

Open Enrollment Dates:

- Active Employees: Monday, Nov. 2 – Thursday, Nov. 19
- PreMedicare: Thursday, Oct. 15 – Friday, Nov. 20
- Medicare: Thursday, Oct. 15 – Monday, Dec. 7

Changes for Employees

The changes listed below are effective Jan. 1, 2016. Details about each plan can be found at hbe.sandia.gov.

- Sandia Total Health members enrolled in BCBSNM and UHC will move to a national preferred formulary for prescription drugs.
- The total 401(k) contribution deferral limit will increase from 25% to 75%.
- Non-represented employees will be able to purchase up to 80 hours of vacation buy for 2016.
- Kaiser will implement auto-pay, which enables members visiting northern California Kaiser in-network doctors to have their claims paid automatically if there are funds in the member's FSA/HRA account.
- By Jan. 31, 2016, all employees should receive a 1095-C form, which provides proof of health insurance coverage for employees in 2015. Keep this form for supplemental documentation for your 2015 taxes.

- **Active Employees: Monday, Nov. 2 – Thursday, Nov. 19**
- **PreMedicare: Thursday, Oct. 15 – Friday, Nov. 20**
- **Medicare: Thursday, Oct. 15 – Monday, Dec. 7**

- Sandia Total Health plan premiums will increase between \$3 and \$31 per month depending on health plan and tier level.

Changes for PreMedicare and Medicare Retirees

Details about retiree plans and OneExchange can be found in the 2016 PreMedicare and Medicare Benefits Choices and Open Enrollment Guides, which are posted online at www.sandia retireebenefits.com.

Retiree Benefits Fairs			
Date	Thursday, Nov. 5	Thursday, Nov. 12	Tuesday, Nov. 17
Location	UNM Continuing Education Conference Center 1634 University Blvd. 87102	Sandia Labs - Livermore Building 928	UNM Continuing Education Conference Center 1634 University Blvd. 87102
Fair Time	9:00 a.m. – 12:30 p.m.	8:30 – 11:30 a.m.	12:30 – 3:30 p.m.
Presentation Time	PreMedicare - 9:30-10:30 a.m.	PreMedicare: 9-10 a.m.	Medicare: 1-2 p.m
	Medicare - 11 a.m.-Noon	Medicare: 10-11 a.m.	PreMedicare: 2-3 p.m.
Presenters	OneExchange Presbyterian & Lovelace BCBSNM & UHC	OneExchange Kaiser BCBSNM & UHC	OneExchange Presbyterian & Lovelace BCBSNM & UHC

Employee and Spouse Benefits Fairs							
Date	Tuesday, Nov. 3	Saturday, Nov. 7	Monday, Nov. 9	Tuesday, Nov. 10	Thursday, Nov. 12	Saturday, Nov. 14	Monday, Nov. 16
Location	Sandia Labs Bldg. 825, Steve Schiff Auditorium	Sandia Laboratory Federal Credit Union Cottonwood Branch 3740 Ellison Rd	IPOC — 2 nd floor break room 1611 Innovation Parkway Office Center	Sandia Labs Bldg. 825, Steve Schiff Auditorium	Sandia Labs Bldg. 928, 7011 East Ave., Livermore, CA	Sandia Laboratory Federal Credit Union 3707 Juan Tabo Blvd.	Sandia Labs Bldg. 825, Steve Schiff Auditorium
Audience	Employees	Employees /Spouses	Employees	Employees	Employees/Spouses	Employees/Spouses	Employees
Fair Time	9 a.m.-2 p.m.	9 a.m.-2 p.m.	9 a.m.-2 p.m.	9 a.m.-2 p.m.	Noon-2 p.m.	9 a.m.-2 p.m.	9 a.m.-2 p.m.



SERVANT LEADER — Todd Dunivan has been named a 2015 recipient of a New Mexico Distinguished Public Service Award. Todd, who is of Lakota American Indian heritage, was recognized for his contributions in the workplace and in the community, especially for his efforts in

education outreach to American Indian and Native Alaskan youth. Todd stands here in front of the iconic bronze sculpture in downtown Albuquerque called The Future, created by renowned sculptor Allan Houser. (Photo by Randy Montoya)

All in: Total commitment to nation, community

Todd Dunivan selected to receive 2015 New Mexico Distinguished Public Service Award

Todd Dunivan, manager of Div. 3000 Business Operations Dept. 10593, is one of 11 individuals from around the state selected to receive a 2015 New Mexico Distinguished Public Service Award.

The award, established in 1969, honors career civil servants for significant contributions to public agencies and to the state and community in which they live. Employees of New Mexico's national laboratories are specifically among those eligible for the award.

Todd was recognized for notable and innovative accomplishments in a variety of business operations at Sandia and for his involvement in a wide range of community activities, especially those related to Native American outreach and education initiatives. He credits the environment and culture at Sandia as contributing to his success.

"Sandia is an incredible place to work and I have been honored to be a part of what we do," Todd says. "Sandia is all about service to the nation; service to the community is simply an extension of that."

Todd and the other recipients will be honored at a banquet on Nov. 11 hosted by Gov. Susana Martinez, co-chair of the awards program. Regarding this year's recipients, the governor said, "Every year, we're proud to honor New Mexicans who raise the bar for excellence in public service. Through their leadership, service, and accomplishments, this year's recipients serve as proud examples of what you can accomplish when you devote yourself to making New Mexico a better place to live, work, and raise a family."

Todd, who is of Lakota American Indian heritage, says being elected to the chair position of the American Indian Outreach Committee at Sandia "was a special honor that opened up new opportunities for me to engage with the community through our outreach programs."

Todd came to the Labs in January 2000 after several years as assistant VP in international banking at First Security Bank and having been an adjunct faculty member teaching international management at the University of New Mexico.

When he was growing up, Todd's family moved often. He was born in Portales and raised in New Mexico, Kansas, and California. He ended up staying in Albuquerque, where his

"Every year, we're proud to honor New Mexicans who raise the bar for excellence in public service. Through their leadership, service, and accomplishments, this year's recipients serve as proud examples of what you can accomplish when you devote yourself to making New Mexico a better place to live, work, and raise a family."

— New Mexico Gov. Susana Martinez
Co-chair, New Mexico Distinguished Public Service Awards

extended family lived, and earned an undergraduate degree in political science from the University of New Mexico. He subsequently earned an MBA at UNM and an MS in International Relations at Troy University.

International engagement

It was that interest in international relations that originally brought Todd to Sandia. "Like many Sandians," he says, "the decision to come here was all about the mission. I initially came because of a job opening allowing me to negotiate US national security contracts in Russia. That work was an outstanding opportunity and I have found a number of additional opportunities at Sandia since then that also have allowed me to contribute to the nation."

In his nearly 16 years at the Labs, Todd has had an impact in several areas. He led the successful transition of Sandia's multi-billion dollar banking relationship, a move, he says "that has resulted in significant cost savings to the American taxpayer while maintaining or increasing our service level." He also introduced an innovative model for American Indian/Alaska Native recruiting during his tenure as chair of Sandia's American Indian Outreach Committee.

Todd's contributions to mission success at Sandia have not gone unnoticed. Among his many work-related honors, he is a recipient of Lockheed Martin's "Straight to the Top"

award and its "Global Supply Chain Leadership" award. A graduate of the prestigious Leadership Albuquerque class, Todd also led the successful ISO 9000 certification effort for Sandia's procurement organizations.

Todd throughout his career has been deeply involved in the community. Many of his activities have focused on the needs of American Indians and Alaska Natives both at Sandia and in the larger community, with a special emphasis on educational outreach, encouraging native youth to pursue opportunities in science and engineering. A regular participant in Sandia's Make a Difference Day activities, Todd has also been involved in volunteering at the Ronald McDonald House, the Roadrunner Food Bank, UNICEF, AYSO, the Boy Scouts of America, and other organizations. He is active in his church as well.

Todd says that as a Roman Catholic, "Jesus Christ is my ultimate inspiration for public service and community service." He says he hopes that through his community activities he can inspire self-confidence and aspiration among young people and inspire hope in the lives of those down on their luck.

"Receiving the New Mexico Public Service Award is a tremendous honor," Todd says, "an affirmation of what I have always striven for: to make a positive difference both at work and in the community. I am deeply moved to be a recipient of this award."

— Bill Murphy